Brown and Caldwell Carson City, Nevada BORING LOG

Boring Location: CU4 Finger Evaporation Ponds Drilling Contractor: Cascade Drilling Equipment: CME-75 Auger Drilling Method: Hollow Stam Auger Sampling Method: Spitt Spoon	Proj	ect Na	me: OU	4 Phase 1 - Yerington Mine Evaporation Ponds	Project Number:							
Drilling Contractor: Cascade Drilling Equipment: CME-75 Auger Drilling Method: Spit Spoon Drilling Method: Spit Spoon Drilling Spit Spoon Drilling Fluid: NA Dri	Soil 1	Boring	:X M	Ionitoring Well: Piezometer: Boring/Well	Na	1 _ 2						
Drilling Contractor: Cascade Drilling Equipment: CME-75 Auger Drilling Method: Hollow Stem Auger Sampling Method: Spill Spoon Driller: Tori Well Seal: N/A Lagged By: C Haley Drilling Flaid: N/A Drilling Flaid: N/A Stot Size: N/A Stot Size: N/A Stot Size: N/A Stot Size: N/A Six Flore dediments) (0 - 0.25) Six Ford Method: Solid (0.25-80) Note: August Distriction of delided cuttings based on ASTM Method D-2488 (the visual-manual procedure) and spilling based on ASTM Method D-2488 (the visual-manual procedure) and spilling based on the Unified Spilling Based	Bori	ng Loc	cation: OU	4 Finger Evaporation Ponds	_							
Drilling Method: Hollow Stem Auger Sampling Method: Spit Spoon Driller: Tori Well Seal: N/A Borchole Diameter:8' Togged By: C. Haley Drilling Fluid: N/A Slot Size: N/A Slot Size: N/A Slot Size: N/A Filter Material: Cement grout Fluid Casing: N/A Slot Size: N/A Fluid Casing: N/A Slot Size: N/A Fluid Casing: N/A Fluid Ca	Drill	ing Co	ontractor:	Cascade	_	Top of PVC Elevation: Ground Surface Elevation: 4395.08 feet amsl						
Depth: 90 ft bos Depth: Not recorded it	Drill	ing Eq	uipment:	CME-75 Auger	Date Started: 10-29-08 Date Finished: Not recorded							
Well Scal: N/A Loged By: C. Haley Drilling Fluid: N/A Slot Size: N/A Filter Material: Cement grout Remarks Slot Size: N/A Filter Material: Cement grout Slot Size: N/A Filter Material: Cement grout Remarks Filter Material: Cement grout Remarks Slot Size: N/A Filter Material: Cement grout Remarks Slot Size: N/A Filter Material: Cement grout Remarks Filter Material: Cement grout Remarks Filter Material: Cement grout Remarks Slot Size: N/A Filter Material: Cement grout Remarks Filter Material: Cement grout Filter	Drilling Method: Hollow Stem Auger							leted : 9				
Section Sect	Sampling Method: Split Spoon Driller: Tori											
Material Description	Well	Seal:	N/A	Borehole Diameter:8"	_	Ty of	we We	and Diar II Casing	neter g: N/A			
SILT (Pond Sediments) (0 - 0.25) Dry, yellow. Sity SAND (Native Soil) (0.25 - 90) Note: Auger cuttings were not logged during drilling. Drilling becomes very hard at 55 feet. Sample: OU4+FEP-168-SC from 2-3.5 feet. Sample: OU4+FEP-168-SC from 65-6.5 feet. Sample: OU4+FEP-168-SC from 65-6.5 feet. Sample: OU4-FEP-168-SC fro	Logg	ged By	: C. Haley	Drilling Fluid: N/A	_	Slot Size: N/A Filter Material: Cement grout						
SILT (Pond Sediments) (0 - 0.25) Dry, yellow. Sity SAND (Native Soil) (0.25 - 90) Note: Auger cuttings were not logged during drilling. Drilling becomes very hard at 55 feet. Sample: OU4+FEP-168-SC from 2-3.5 feet. Sample: OU4+FEP-168-SC from 65-6.5 feet. Sample: OU4+FEP-168-SC from 65-6.5 feet. Sample: OU4-FEP-168-SC fro												
SM Silvy SAND (Native Soil) (0.25 - 90) Note: Auger cuttings were not logged during drilling. Drilling becomes very hard at 55 feet. Sample: OUL-FEP-16B-SC from 65-66.5 feet. Sample: Oul-FEP-16B-SC	Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location Lithology	Remarks			
	10— 15— 20— 25— 25—	4385 —	ML	Dry, yellow. Silty SAND (Native Soil) (0.25 - 90) Note: Auger cuttings were not logged during drilling. Drilling becomes very hard at 55 feet. Sample: OU4-FEP-16A-SC from 2-3.5 feet. Sample: OU4-FEP-16B-SC from 65-66.5 feet. Sample: OU4-FEP-16-GW from 85-90 feet. Groundwater grab sample from temporary well (2" PVC with 5' screen interval and 0.1" slot size). Sample collected with					based on the Unified Soil Classification System. Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet. Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line. All depths are below land surface unless stated otherwise. Type 1 Samples are representative of geochemical and geotechnical soil samples as well as groundwater samples. Type 2 Samples are representative of meteoric			

Carson City, Nevada

BORING LOG

Project Name: OU4 Phase 1 - Yerington Mine Evaporation Ponds]	Project Number:		
	Boring:		Ionitoring Well:	Piezometer:	Boring/Well	Na	me	: _	0	U4-FE	<u>Sheet 2 of 3</u>
								4			
Depth (ft)	Elevation (famsl)	USCS Group Symbol	N	Naterial Description		Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
- - -	- - -										
40	4355 — - - -										
45— - -	4350 — - - -										
50-	4345 —										
55— - - -	4340 — - - -										
60-	4335 — - - -										
65— - - -	4330 —					OU4-FEP-16B-SC	X				
70-	4325 —										
75— - -	4320 — - - -										

Carson City, Nevada

BORING LOG

Project Name: OU4 Phase 1 - Yerington Mine Evaporation Ponds Project Number: 136742									
Soil I	Boring:	:X M	Ionitoring Well: Piezometer:	Boring/Well Na	am	e: _	0	U4-FE	P-16 Sheet <u>3</u> of <u>3</u>
						1.4			
Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type II ocation	Sample Type II Name	Sample Type II Location	Lithology	Remarks
80-	4315 —								
- - 85— - -	- - - 4310 — - -			OU4-FEP-16-GW	an an	3			
90-	- 4305 —								
-	_		Bottom of Borehole at 90 feet below ground surface	ce.					
95— - -	- 4300 — - -								
- 100 <i>-</i>	- 4295 								
- - - 105 — - -	-								
-	_								
110-	4285 —								
- - 115 — - - - - 120 —	-								
-	-								